Bill No 1 & Final

DSNO 813/13-14 dt 18.2.2014
TSNO 715/13-14 dt 19.2.2014
Cancel 6.Way

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341325

Serial No. .....
Name of Work ..Improvements to Bhuvaneshwari Nagara 6th main road (Phase III) to
From
Name of Contractor of nature of Agency Maheshwaramma People in ward No.14. Begalapete
Date of commencement of work ..Technical Inspection (Cancel) Bengaluru

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	WO No Scarifying bituminous/gravel surface and upto 150mm thick premix carpet including disposal of the unserviceable material to a lead of 1000m including cost of all labour charges and all other charges complete as per Specification from 11th Cross to 6th Cross	1	30.00	4.90+5.20 / 2		155.00	
		1	11.50	5.20+9.40 / 2		87.82	
		1	30.00	5.20+5.20 / 2		171.60	
		1	14.00	5.20+5.20 / 2		79.10	
		1	9.00	4.30+4.60 / 2		40.85	
						536.82 Sqm	
				Less	530 m Thick		10735/-
					20.25/Sqm		

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
2	Providing laying Spreading and Compacting Stone aggregate 40mm nominal size in Stone to water bound macadam Spreading by hand removing Spreading in even layers not exceeding 8.10cm in loose thickness to proper grade and camber applying and binding required type of Screening binding material to the interstices of the aggregate by watering and rolling with 8 tonne tandem road roller Stone aggregate binding material and screening material and delivery to site of work all lead Compaction to measurement Complete as per Specification	1	30.00	$\frac{48.50+53.50}{2}$	0.075	11.92	
		1	11.50	$\frac{53.50+49.40}{2}$	0.075	6.57	
		1	30.00	$\frac{53.50+53.50}{2}$	0.075	12.82	
		1	14.00	$\frac{53.50+53.50}{2}$	0.075	5.93	
		1	9.00	$\frac{4.50+4.00}{2}$	0.075	3.07	
						40.25 cu	
						Less 1/3 39.75 cu	
						0134.36/-	53819/-

M. A. R. 57 (Rule 116)
Measurement Book
No. B
341326

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3	Providing laying Spreading and Compacting grade of Stone aggregate 40mm nominal size in Stone to water bound macadam Specification with necessary quantity of water at site including Compaction by mechanical means Consolidation and rolling with 8 tonne tandem road roller including Sub-base	1	30.00	$\frac{49.40+53.50}{2}$	0.20	31.80	
		1	31.50	$\frac{53.50+49.40}{2}$	0.20	17.36	
		1	30.00	$\frac{53.50+53.50}{2}$	0.20	34.20	
		1	14.00	$\frac{53.50+53.50}{2}$	0.20	15.82	
		1	9.00	$\frac{4.50+4.00}{2}$	0.20	8.19	
						107.37 cu	
						Less 1/10 cu	118830/-
						0112.10/ cu	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
4	Providing and applying primer Coat with bituminous emulsion on surface of granular base including cleaning of loose particles and spraying primer at the rate of 0.60 kg/sq.m using mechanical means complete						
		1	30.00	4.50+5.70/2		157.50	
		1	11.50	5.70+7.40/2		86.82	
		1	30.00	5.70+5.70/2		171.00	
		1	14.00	5.70+5.70/2		79.10	
		1	9.00	4.50+4.60/2		40.95	2346
						536.87 sq.m	
				Add 6.5% for		30.00 sq.m	
						566.87 sq.m	
						say 567 sq.m	
				@ 44.98/sq.m			
5	Clearing the existing bituminous topping surface with binding both Broadly as per lines directions with old gunny bags as per Engineer in charge including cost of all labour						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341327

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Labour Hire of machinery Carpets as per Specs						
		1	30.00	3.90+4.80/2		126.00	
		1	30.00	5.40+5.70/2		157.50	
		1	30.00	5.10+4.40/2		142.50	
		1	30.00	4.40+5.10/2		142.50	
						568.50 sq.m	1386
				Add 6% for wastage		34.00 sq.m	
						602.50 sq.m	
						say 603 sq.m	
6	Providing and applying tack coat on the prepared black topping surface at 5 kg per 100 sq.m using bitumen emulsion with bottle fall sprayer set (including cleaning of the surface) including cost of						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	all materials labour hire & machinery complete as per Specification						
		1	30.00	3.50+4.50/2		126.00	
		1	30.00	5.40+5.70/2		167.50	
		1	30.00	5.70+5.40/2		142.50	
		1	30.00	4.40+5.70/2		142.50	
						568.50 Sft	
				Less 30.00 Sft			9593/-
				535.50 Sft			
				@17.93/Sft			
7	providing and laying Semi dense bituminous Concrete 25mm thick using Hot mix plant batches type hire & providing complete with 400-420 TPH output of 75 tonnes per hour. Laying finishing aggregate & Grading shall be as per Specification Clause 509 of MORTH including heating of aggregate & bitumen binder at 160°C & transporting the mix from mixing plant to site of work and all other incidentals complete as per Specification Clause 509 of MORTH						
		1	30.00	4.90+4.70/2	0.03	4.77	
		1	11.50	5.70+7.90/2	0.03	2.00	
		1	30.00	5.70+5.70/2	0.03	5.13	
		1	19.00	5.70+5.70/2	0.03	2.57	
		1	9.00	4.40+4.60/2	0.03	1.29	
		1	30.00	3.90+4.50/2	0.03	3.78	
		1	30.00	5.40+5.70/2	0.03	4.72	
		1	30.00	5.70+4.60/2	0.03	4.27	
		1	30.00	4.60+5.70/2	0.03	4.27	
				Less 31.95 Sft		33.16 Cft	3129/35/-
				@ 9794.57/Sft			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341328

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9	Disposal of debris in the front place of chipping work all over as directed by the Engineer in charge including lead upto 4km						
	Original Item ①	53	x 0.1	= 279.50	Cum		6220/-
				28.24			
8	Cutting of new concreting					31852	1665/-
	Original Item ②			52.11	Rmt		
					Total		538149-00
							53815-00
							591964-00

certificate
(1) work done is satisfactory
(2) Item are not paid in the previous bills
(3) Unlawful by clerical errors

28/2/24

28/2/24

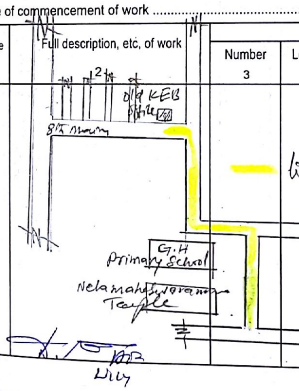
M. A. R. 57 (Rule 116)
Measurement Book

No. B
341329

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

A.N.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1		3	4	5	6	7	8



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